



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the Application of: **Garcia Duran et al.**

CASE NO: **AD6516**

APPLICATION NO.: **09/462,971**

GROUP ART UNIT: **1714**

FILED: **JUNE 28, 2000**

EXAMINER: **SZEKELY, PETER A**

FOR: **FLAME RETARDANT POLYOLEFIN COMPOSITIONS**

**AFFIDAVIT UNDER 37 C.F.R. 1.132**

Commissioner for Patents  
P.O. Box 1450  
Alexandria VA 22313-1450

Sir:

I, Loic Pierre Rolland, am a co-inventor of this application and in signing below, hereby declare that the enclosed comparative data were measured under my instructions and support the conclusion that aluminum trihydrate in a blend of EVACO, EVA or polyolefin, and EVA+MAH or LLDPE+MAH or HDPE+MAH represents a flame retardant, halogen-free polymer composition superior to calcium carbonate in a similar blend at equal loading.

Material	LOI (%)	Tensile (Mpa)	Elongation (%)
17.5% PELL D-2045 E DOW	33	12.4	39
17.5% Elvax 265			
65% Martinal LL 104			

14.0% PELLD-2045 E DOW	38	18.3	112
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14.05% Elvax 265

65% Martinal LL 104

7% Fusabond 226

17.5% PELLD-2045 E DOW	23	9.8	28
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17.5% Elvax 265

65% CaCO<sub>3</sub>

14.0% PELLD-2045 E DOW	24	13.1	227
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14.05% Elvax 265

65% CaCO<sub>3</sub>

7% Fusabond 226

Where PELLD-2045 E DOW is a linear low density polyethylene (polyolefin) having a density of 0.920 g/cc and a melt flow index (190°/2.16 kg) of 1.0, Elvax 265 is an ethylene vinyl acetate (EVA) with a vinyl acetate content of 28 % and a melt flow index (190°/2.16 kg) of 3.0; Martinal LL 104 is aluminum trihydrate; and Fusabond 226 is a linear low density polyethylene grafted with maleic anhydride (LLDPE + MAH) and having a density of 0.930 g/cc and a melt flow index (190°/2.16 kg) of 1.5.

I hereby declare that all statements herein of my own knowledge are believed to be true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such will false statements may jeopardize the validity of the application or any patent issued thereon.

Date: Dec. 19, 2003

Loic Pierre Rolland

Loic Pierre Rolland